NUCLEAR REGULATORY COMMISSION WEATHER PROGRAMS

The United States Nuclear Regulatory Commission (NRC) licenses and regulates all nuclear facilities subject to the Atomic Energy Act of 1954 as amended. The licensing and operation of these nuclear facilities require the identification of meteorological and climatological conditions that can affect the safe operation of the facility, and that provide input to the assessment of the radiological impacts of any airborne releases from the facility.



Within the NRC, the Office of Nuclear Reactor Regulation and the Office of Nuclear Material Safety and Safeguards conduct reviews of nuclear facility siting, design, construction, and operation. These reviews include consideration of meteorological factors. The two offices also conduct rulemaking to establish regulatory The NRC Regional requirements. Offices assure that licensing conditions are followed by NRC licensees. Together with the NRC Incident Response Operations, they also carry out NRC responses to nuclear facility emergencies.

The Office of Nuclear Regulatory Research (RES) conducts research in various categories to identify potential safety issues, and to prepare the agency to regulate the use of new technology. RES also develops regulatory guidance and participates in the development of criteria and consensus standards relat-



Figure 3-NRC-1. NRC regulates the storage of spent fuel at nuclear plants. The photo shows a fuel cask being maneuvered in a cradle at the Hatch plant in Georgia.

ed to the protection of the public health and safety and the environment.

At the present time, the NRC is a user of meteorological information, rather than performing research in this field. Meteorological data will be used to assess radiological impacts of routine airborne releases from facilities and to evaluate the impact of proposed changes in plant design or operation on unplanned releases. Information of this type is also important for developing scenarios of climatological impacts on the isolation of long-lived nuclear wastes. The NRC also maintains an interest in the transport and dispersion of airborne, hazardous, non-radioactive materials, and the effects of extreme meteorological events on the safe operation of nuclear facilities.

